

AMENDMENTS TO THE CLAIMS

Please cancel Claim 38 without prejudice.

Please amend Claims 1, 5, 9, 19, 20, and 32 as follows.

1. (Currently amended) An apparatus for generating a 3-dimensional image from at least two plane images, comprising:

left and right image inverting devices for receiving left and right plane images of an object and inverting the left and right sides of the left and right images, respectively, each plane image being produced at different positions with respect to the object;

left and right plane image display devices for simultaneously outputting the received inverted left and right plane images;

a left reflection mirror, on which the inverted left image is incident and reflected at the same angle, so that the reflected left image is perceived by a left eye of a viewer; and

a right reflection mirror, on which the inverted right image is incident and reflected at the same angle, so that the reflected right image is perceived by a right eye of a viewer.

2. (Original) The apparatus of Claim 1, wherein positions of the left and right plane image display devices and the left and right reflection mirrors are automatically or manually adjusted so as to maintain an incident angle of an image input to each of the left and right reflection mirrors from the left and right plane image display devices to be the same as a reflection angle of an image reflected by each of the left and right reflection mirrors which is to be seen by each of the left and right eyes of a viewer.

3. (Original) The apparatus of Claim 1, wherein each of the left and right plane image display devices comprises a television monitor, a big-screen wall mount TV, a computer monitor, or a LCD.

4. (Original) The apparatus of Claim 1, wherein, in the left and right reflection mirrors, incident angles of the left and right plane images and reflection angles of the images reflected to the viewer are adjusted in a range of about 30°- 50°.

5. (Currently amended) An apparatus for generating a 3-dimensional image from at least two plane images, comprising:

left and right image inverting devices for receiving left and right plane images of a first object and inverting the left and right sides of the left and right images, respectively, each plane image being produced at different positions with respect to the first object;

first left and right plane image display devices for simultaneously outputting the received inverted left and right plane images;

second left and right plane image display devices for simultaneously outputting original left and right plane images of a second object, each image being produced at different positions with respect to the second object;

a first left mirror for synthesizing the inverted left image and the original left image and outputting a left synthesized image;

a first right mirror for synthesizing the inverted right image and the original right image, and outputting a right synthesized image;

a second left mirror, on which the left synthesized image is incident and reflected at the same angle, so that the left synthesized image is perceived by a left eye of a viewer; and

a second right mirror, on which the right synthesized image is incident and reflected at the same angle, so that the right synthesized image is perceived by a right eye of a viewer.

6. (Original) The apparatus of Claim 5, wherein each of the first left and right mirrors has two sides transmitting and reflecting an input image, respectively.

7. (Original) The apparatus of Claim 6, wherein each of the first left and right mirrors has transmittance of about 50% and reflectance of about 50%.

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8. (Original) The apparatus of Claim 5, wherein, in the first and second left and right mirrors, incident angles of the left and right plane images and reflection angles of the images reflected to the viewer are adjusted in a range of about 30°- 50°.

9. (Currently amended) An apparatus for generating a 3-dimensional image from at least two plane images, comprising:

first and second inverting devices configured to receive first and second plane images of a first object and invert the left and right sides of the first and second plane images, respectively, each image being produced at first and second positions with respect to the first object;

first and second image display devices configured to substantially simultaneously output the received inverted first and second plane images;

a first mirror located between the first and second display devices and configured to receive and reflect the first inverted image in a first direction; and

a second mirror located between the first and second display devices and configured to receive and reflect the second inverted image in the first direction;

wherein the first and second display devices are located on opposite sides of the first and second mirrors.

10. (Original) The apparatus of Claim 9, wherein the first and second mirrors are arranged such that the two mirrors as a whole are substantially "V" shaped.

11. (Original) The apparatus of Claim 10, wherein at least one of the first and second mirrors has transmittance of about 50% and reflectance of about 50%.

12. (Original) The apparatus of Claim 9, wherein each of the first and second mirrors has reflectance that is greater than 50%.

13. (Original) The apparatus of Claim 9, wherein each of the display devices comprise a computer monitor, a TV, a LCD, or any other plane image display device.

14. (Original) The apparatus of Claim 9, wherein the first and second positions are substantially symmetric with respect to a line that passes the first object in a latitudinal direction.

15. (Original) The apparatus of Claim 9, further comprising:

third and fourth image display devices configured to substantially simultaneously output third and fourth plane images of a second object, respectively, each image being produced at different positions with respect to the second object;

a third mirror located between the first display device and the first mirror, the third mirror having first and second sides opposing each other, the first side of the third mirror being configured to receive and transmit the first inverted image to the first mirror, the second side of the third mirror being configured to receive and reflect the third image to the first mirror; and

a fourth mirror located between the second display device and the second mirror, the fourth mirror having first and second sides opposing each other, the first side of the fourth mirror being configured to receive and transmit the second inverted plane image to the second mirror, the second side of the fourth mirror being configured to receive and reflect the fourth image to the second mirror;

wherein the first and second mirrors are configured to reflect the transmitted and reflected images from the third and fourth mirrors in the first direction, respectively.

16-18. (Previously cancelled)

19. (Currently amended) An apparatus for generating a 3-dimensional image from at least two plane images, comprising:

an inverting device configured to receive a first plane image of an object and invert the left and right sides of the first plane image;

a first image display device configured to output the received inverted first plane image;

a second image display device configured to output a second plane image of the object, the first and second images being produced at different positions with respect to the object, wherein the first and second image display devices are configured to output

substantially simultaneously the inverted first image and the second image, respectively;
and

a mirror configured to receive and reflect the inverted image output from the first image display device in a direction;

wherein the first and second display devices are located on opposite sides of the mirror,

and wherein the second display device is arranged to output the second plane image in the direction.

20. (Currently amended) A method of generating a 3-dimensional image from at least two plane images, comprising:

receiving first and second plane images of a first object, each image being produced at first and second positions with respect to the first object, and inverting the left and right sides of the first and second plane images, respectively;

after the receiving and inverting, displaying substantially simultaneously the inverted first and second plane images;

configuring a first mirror to receive and reflect the first inverted image in a first direction; and

configuring a second mirror to receive and reflect the second inverted image in the first direction;

wherein the first and second mirrors are arranged such that the two mirrors as a whole are substantially "V" shaped.

21. (Original) The method of Claim 20, wherein at least one of the first and second mirrors has transmittance of about 50% and reflectance of about 50%.

22. (Original) The method of Claim 20, wherein each of the first and second mirrors has reflectance that is greater than 50%.

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23. (Original) The method of Claim 20, further comprising adjusting the first and second mirrors such that incident and reflection angles of the first and second plane images are in a range of about 30°- 50°.

24. (Original) The method of Claim 20, wherein the first and second positions are substantially symmetric with respect to a line that passes the first object in a latitudinal direction.

25-27. (Previously cancelled)

28. (Previously added) The apparatus of Claim 1, wherein the left and right plane image display devices include the left and right image inverting devices therein, respectively.

29. (Previously added) The apparatus of Claim 5, wherein the first left and right plane image display devices include the left and right image inverting devices therein, respectively.

30. (Previously added) The apparatus of Claim 9, wherein the first and second image display devices include the first and second inverting devices therein, respectively.

31. (Previously added) The apparatus of Claim 19, wherein the first image display devices includes the inverting device therein.

32. (Currently amended) An apparatus for generating a 3-dimensional image from at least two plane images, comprising:

first and second image display devices configured to receive first and second plane images of an object and invert the left and right sides of the first and second plane images, respectively, and to substantially simultaneously output the inverted first and second plane images, respectively, each image being produced at first and second positions with respect to the object;

a first mirror located between the first and second display devices and configured to receive and reflect the first inverted image in a first direction; and

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a second mirror located between the first and second display devices and configured to receive and reflect the second inverted image in the first direction;

wherein the first and second display devices are located on opposite sides of the first and second mirrors,

and wherein the first and second display devices directly display the inverted images without use of mirrors.

33. (Previously added) The apparatus of Claim 32, wherein the first and second mirrors are arranged such that the two mirrors as a whole are substantially "V" shaped.

34. (Previously added) The apparatus of Claim 33, wherein at least one of the first and second mirrors has transmittance of about 50% and reflectance of about 50%.

35. (Previously added) The apparatus of Claim 32, wherein each of the first and second mirrors has reflectance that is greater than 50%.

36. (Previously added) The apparatus of Claim 32, wherein each of the display devices comprise a computer monitor, a TV, a LCD, or any other plane image display device.

37. (Previously added) The apparatus of Claim 32, wherein the first and second positions are substantially symmetric with respect to a line that passes the first object in a latitudinal direction.

38. (Cancelled)